Figure 1: Model Specification

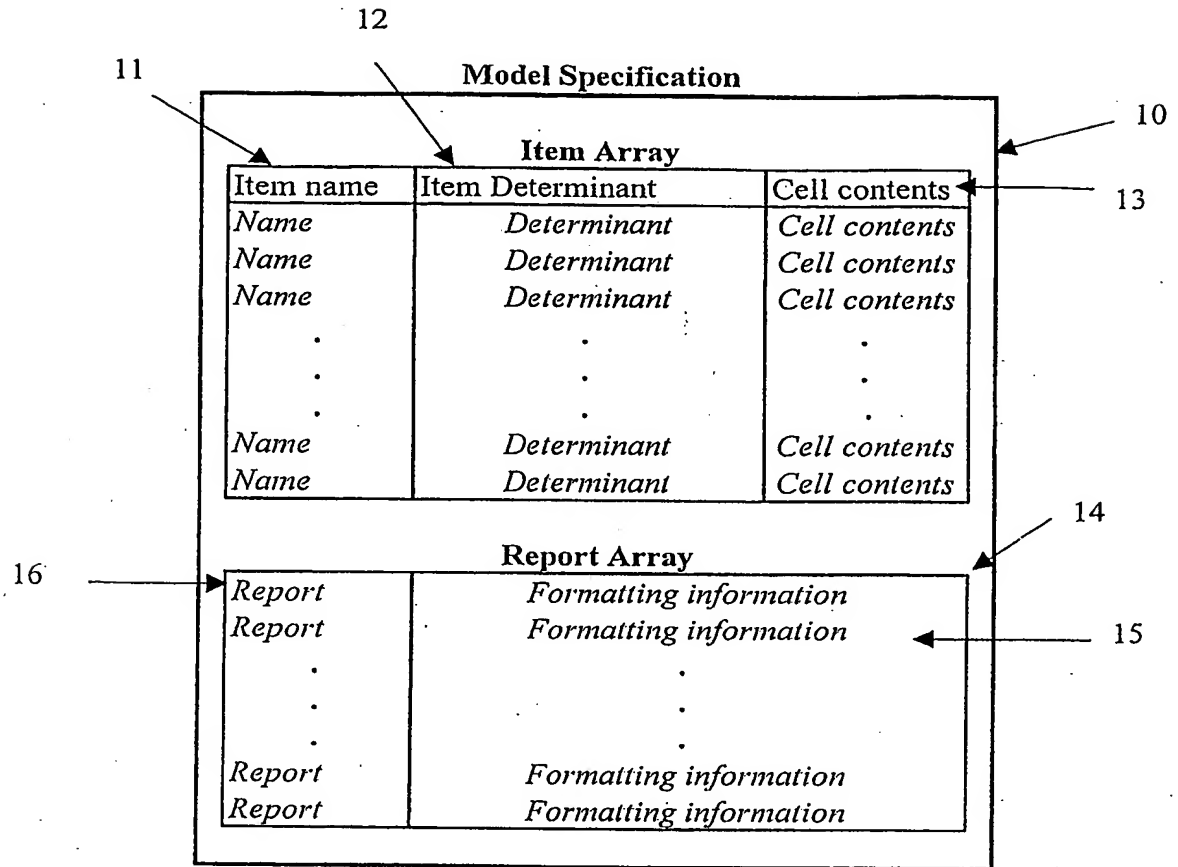12

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Model Specification

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Item Array

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Item name	Item Determinant	Cell contents
Name	*Determinant*	*Cell contents*
Name	*Determinant*	*Cell contents*
Name	*Determinant*	*Cell contents*
.	.	.
.	.	.
.	.	.
Name	*Determinant*	*Cell contents*
Name	*Determinant*	*Cell contents*

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Report Array

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Report	*Formatting information*
Report	*Formatting information*
.	.
.	.
.	.
Report	*Formatting information*
Report	*Formatting information*

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Figure 2: Model Input Data

Instance Data (name, instanceID and optional data)
Instance Data (name, instanceID and optional data)
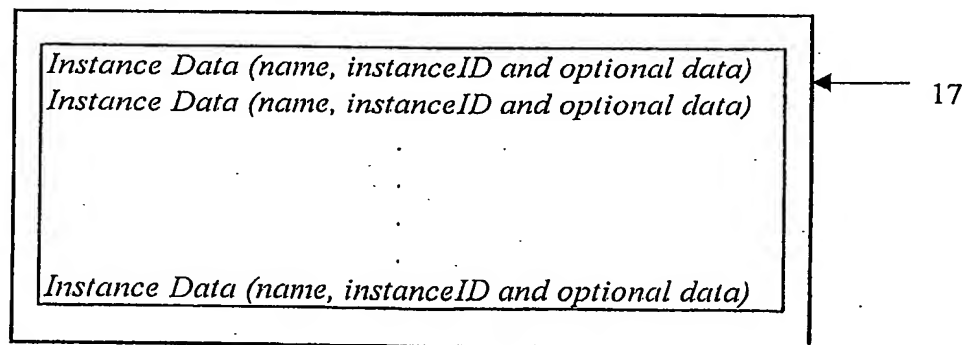
.

.

.

Instance Data (name, instanceID and optional data)

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Figure 3: Method of Determining Item Instances

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Model Input Data

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Steps 1 and 2
Scan Model Input
Data and record
Instances in IIDB

Record Input Instances

Item Instance Database

Item Name	*InstanceID*
Item Name	*InstanceID*
Item Name	*InstanceID*
Item Name	*InstanceID*
Item Name	*InstanceID*
Item Name	*InstanceID*

(grows with Model)

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Repeat Step 3

Step 3: performed
for each Item:

Step 3a:
read Item
Determinant;
read IIDB:
build CIA.

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Model Specification

Read
Determinant

Read
Instances

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Consolidated
Instance Array
(created for each Item
and destroyed after Item
Determinant has been
evaluated)

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Build
CIA

Use
CIA

Step 3b:
use Item
Determinant and CIA
to identify new
Instances;

Add new Instances identified in Step 3

Yes

Step 4: have any
new Instances been
added to IIDB?

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No

Proceed to allocate
rows and write cell
contents